

**BIOTROL 550****1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** BIOTROL 550  
**Common Name:** MIXTURE  
**SDS Number:** 0307-PRH  
**Product Code:** BI0003  
**Revision Date:** 5/18/2015  
**Version:** 1  
**Internal ID:** 310H  
**Product Use:** BIOCIDES  
**Supplier Details:** U. S. Water Services  
12270 43rd St. NE  
St. Michael, MN 55376

**Contact:** Non-emergency #: 866-663-7632  
**Email:** SDS@uswaterservices.com  
**Web:** www.uswaterservices.com

**EMERGENCY RESPONSE: (ChemTel)**  
**US & Canada: 800-255-3924**  
**International: +01-813-248-0585**

**2 HAZARDS IDENTIFICATION****Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 4 Inhalation  
Health, Serious Eye Damage/Eye Irritation, 1  
Health, Acute toxicity, 5 Dermal  
Health, Acute toxicity, 3 Oral  
Health, Aspiration hazard, 2

**GHS Label elements, including precautionary statements**

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:****GHS Hazard Statements:**

H332 - Harmful if inhaled  
H318 - Causes serious eye damage  
H313 - May be harmful in contact with skin  
H301 - Toxic if swallowed  
H305 - May be harmful if swallowed and enters airways

**BIOTROL 550****GHS Precautionary Statements:**

P281 - Use personal protective equipment as required.

P302+352 - IF ON SKIN: Wash with soap and water.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. DO NOT remove contact lenses.

P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P315 - Get immediate medical advice/attention.

**Hazards not otherwise classified (HNOC) or not covered by GHS****3 COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:**

Cas#	%	Chemical Name
111-30-8	50%	Glutaraldehyde

**4 FIRST AID MEASURES**

**Inhalation:** Remove from contamination. If person has stopped breathing administer artificial respiration. If symptoms persist, seek medical attention.

**Skin Contact:** Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Consult a physician if irritation develops. Contact with solutions of glutaraldehyde may cause a harmless yellow or brownish discoloration of the skin.

**Eye Contact:** Flush eyes with plenty of running water for at least 15 minutes. Seek immediate medical attention.

**Ingestion:** DO NOT induce vomiting. DO NOT give anything to drink. Seek immediate medical attention.

**Most important symptoms & effects (acute & delayed):** No data available

**Indication of need for immediate medical attention:** No data available

**Special treatment needs:** Due to the severely irritating or corrosive nature of the material, any material aspirated during vomiting may cause lung injury. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration.

**5 FIRE FIGHTING MEASURES**

<b>Flash Point:</b>	95°C
<b>Flash Point Method:</b>	Pensky Martens Closed cup
<b>Burning Rate:</b>	Not applicable
<b>Autoignition Temp:</b>	395°C
<b>LEL:</b>	Not determined
<b>UEL:</b>	Not determined

**Extinguishing Media:**

**Suitable:** Water fog, carbon dioxide, foam, dry chemical. After water evaporates, remaining material will burn.

**Unsuitable:** No information available

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**Hazardous combustion products:** Hazardous decomposition products formed under fire conditions- Carbon oxides, and other hazardous compounds

**Unusual Fire or Explosion Hazards:** Toxic gases, vapors

**Special protective equipment/precautions:** Wear self-contained breathing apparatus

**6****ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective equipment, emergency procedures:** Avoid contact with the material. See section 8 of SDS for PPE recommendations

**Environmental Precautions:** Keep runoff from entering drains or waterways

**Spill/Leak procedures:** Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. It may be possible to decontaminate spilled material by careful application of aqueous sodium hydroxide, dibasic ammonium phosphate solution, or ammonium bisulfite. Depending on conditions, considerable heat and fumes can be liberated by the decontamination reaction. Place into closed container for disposal.

**Regulatory Requirements:** Dispose of recovered material in accordance with all applicable state and federal regulations.

**7****HANDLING AND STORAGE**

**Handling Precautions:** Fully review all data before handling of the material itself. Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only!

**Storage Requirements:** Store in closed containers away from temperature extremes and incompatible materials. Store in properly labeled containers in accordance with all local, state and federal guidelines.

**8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Provide local exhaust ventilation as needed to control misting.

**Personal Protective Equipment:** HMIS PP, H | Splash Goggles, Gloves, Apron, Vapor Respirator

Respiratory protection: Not required under normal use conditions. If needed use MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

**Exposure Limits:**

OSHA (TWA)/PEL: Not Established

ACGIH (TWA/TLV): Not Established

**BIOTROL 550****9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, colorless	<b>Odor:</b>	Sharp furry medicinal odor
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Complete in water
<b>Odor Threshold:</b>	Not determined	<b>Freezing/Melting Pt.:</b>	Not determined
<b>Spec Grav./Density:</b>	9.42 lb/gal	<b>Flash Point:</b>	95°C
<b>Viscosity:</b>	Not determined	<b>Vapor Density:</b>	1.1
<b>Boiling Point:</b>	Not determined	<b>Auto-Ignition Temp:</b>	Not determined
<b>Partition Coefficient:</b>	Not determined	<b>UFL/LFL:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined		
<b>pH:</b>	3.5		
<b>Evap. Rate:</b>	0.8		
<b>Decomp Temp:</b>	Not determined		

**10 STABILITY AND REACTIVITY**

<b>Stability:</b>	Product is stable at room temperature in closed containers under normal storage and handling conditions.
<b>Conditions to Avoid:</b>	Avoid temperature extremes. Protect from freezing.
<b>Materials to Avoid:</b>	Strong alkalis and acids catalyze an aldol-type condensation (exothermic, but not expected to be violent).
<b>Hazardous Decomposition:</b>	Thermal decomposition may produce carbon oxides and other toxic compounds.
<b>Hazardous Polymerization:</b>	Will not occur.

**11 TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** No data available  
**Skin Corrosion/Irritation:** No data available  
**Serious eye damage/irritation:** No data available  
**Respiratory or skin sensitization:** No data available  
**Germ cell mutagenicity:** No data available  
**Carcinogenicity:** No data available  
**Reproductive Toxicity:** No data available  
**Specific target organ toxicity (single exposure):** No data available  
**Specific target organ toxicity (repeated exposure):** No data available  
**Aspiration hazard:** No data available

**BIOTROL 550****12 ECOLOGICAL INFORMATION****Aquatic Toxicity**

Species	Acute LC <sub>50</sub> 24hr	Acute LC <sub>50</sub> 48hr	Acute LC <sub>50</sub> 72hr	Acute LC <sub>50</sub> 96hr	Acute NOEC	Acute LOEC
Water Flea ( <i>Ceriodaphnia dubia</i> )	22.2 mg/L	17.5mg/L	---	---	13mg/L 48hr	21.6mg/L 48hr
Fathead Minnow ( <i>Pimephales promelas</i> )	19.0mg/L	13.7mg/L	13.2mg/L	13.0mg/L	7.8mg/L 96hr	13.0 mg/L 96hr

**Elimination** (persistence & degradability): No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** No data available

**13 DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

**14 TRANSPORT INFORMATION**

UN2922, Corrosive liquids, toxic, n.o.s., 8,(6.1), PGII, (Gluteraldehyde)

DOT Transportation data (49 CFR 172.101)

**15 REGULATORY INFORMATION****Component (CAS#) [%] - CODES**

Gluteraldehyde (111-30-8) [50%] HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

**Regulatory CODE Descriptions**

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

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**TXAIR = TX Air Contaminants with Health Effects Screening Level**

**EPA / CERCLA / SARA TITLE III:**

**CERCLA List:** This product does not contain any CERCLA listed hazardous substances.

**Toxic Chemical List (SARA 313):** This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

**Extremely Hazardous Substance (SARA 302/304):** This product does not contain any extremely hazardous substances subject to emergency planning requirements.

**SARA 312:** Acute

**California Proposition 65:** This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm.

**RCRA:** Corrosive, D002

**16****OTHER INFORMATION**

HMIS III: Health = 3, Fire = 1, Physical Hazard = 0

HMIS PPE: H - Splash Goggles, Gloves, Apron, Vapor Respirator

HMIS	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H

**Author:** U.S. Water Services

**Revision Notes:** Updated to GHS format

**Disclaimer:**

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